

**ABSTRACT**

A safety needle-bearing device for mixing and injecting medication from a two-chambered cartridge is provided. The device includes a needle that extends through the forward end of a barrel. A two-chambered cartridge is attached to the barrel and contains components of a medication stored separately in the chambers. A plunger in the rearward end of the cartridge can be advanced into the cartridge to combine the separate components and prepare the medication. As the cartridge is advanced forwardly into the barrel, the medication is injected through the needle and into a patient. At the completion of the injection stroke, the cartridge engages a needle retainer to actuate needle retraction. The needle is subsequently retracted to shield the contaminated needle.